$$CHA\_OUT = CHA\_SOURCE + [K_1 * (CHB\_SOURCE_{delayed\_by\_D1})] - [K_2 * (CHA\_SOURCE_{delayed\_by\_D2})] - [K_3 * (CHB\_SOURCE_{delayed\_by\_D3})] + [K_4 * (CHA\_SOURCE_{delayed\_by\_D4})] + \ldots$$

31A 32A 33A 34A 35A 36A 37A

Fig. 1A

$$CHB\_OUT = CHB\_SOURCE - [K_5 * (CHA\_SOURCE_{delayed\_by\_D5})] - [K_6 * (CHB\_SOURCE_{delayed\_by\_D6})] + [K_7 * (CHA\_SOURCE_{delayed\_by\_D7})] + [K_8 * (CHB\_SOURCE_{delayed\_by\_D8})] - \ldots$$

31B 32B 33B 34B 35B 36B 37B

Fig. 1B

$$SURROUND\_A\_OUT = - [K_9 * (CHB\_SOURCE_{delayed\_by\_D9})] + [K_{10} * (CHA\_SOURCE_{delayed\_by\_D10})] + [K_{11} * (CHB\_SOURCE_{delayed\_by\_D11})] - \ldots$$

FIG. 1C

$$SURROUND\_B\_OUT = [K_{12} * (CHA\_SOURCE_{delayed\_by\_D12})] + [K_{13} * (CHB\_SOURCE_{delayed\_by\_D13})] - [K_{14} * (CHA\_SOURCE_{delayed\_by\_D14})] - \ldots$$

Fig. 1D

$$\begin{aligned} SURROUNDA\_OUT = & - [K_9 * ((CHA\_SOURCE\text{-}CHB\_SOURCE)_{delayed\_by\_D9})] \\ & + [K_{10} * ((CHA\_SOURCE\text{-}CHB\_SOURCE)_{delayed\_by\_D10})] \\ & + [K_{11} * ((CHA\_SOURCE\text{-}CHB\_SOURCE)_{delayed\_by\_D11})] - \ldots \end{aligned}$$

Fig. 1E

$$\begin{aligned} SURROUNDB\_OUT = & + [K_{12} * ((CHA\_SOURCE\text{-}CHB\_SOURCE)_{delayed\_by\_D12})] \\ & + [K_{13} * ((CHA\_SOURCE\text{-}CHB\_SOURCE)_{delayed\_by\_D13})] \\ & - [K_{14} * ((CHA\_SOURCE\text{-}CHB\_SOURCE)_{delayed\_by\_D14})] - \ldots \end{aligned}$$

Fig. 1F

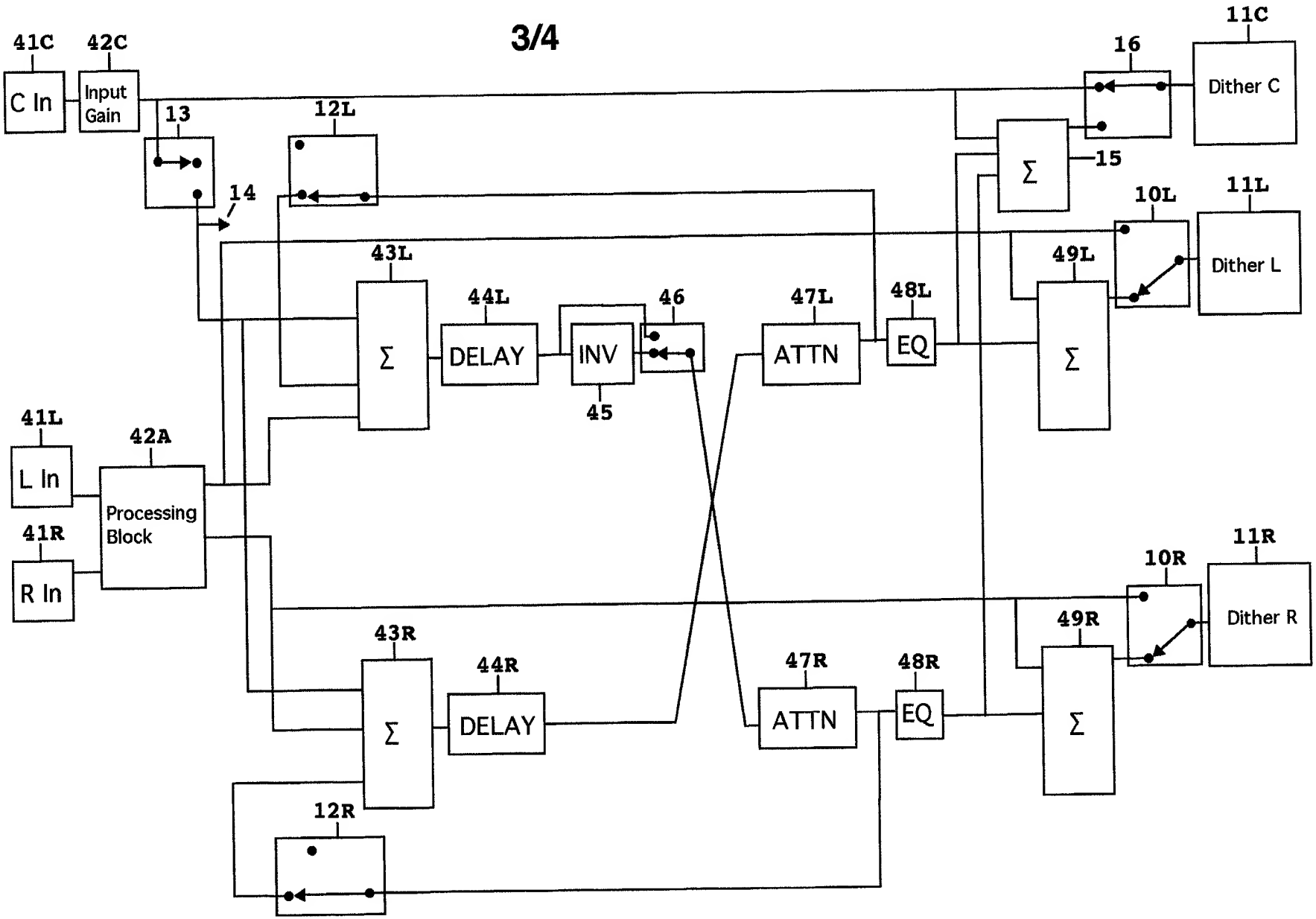
41C
42C
C In
Input Gain
13
14
12L
16
11C
Dither C
15
Σ
10L
11L
Dither L
49L
43L
Σ
44L
DELAY
46
INV
45
47L
ATTN
48L
EQ
41L
L In
42A
Processing Block
41R
R In
10R
11R
Dither R
49R
43R
Σ
44R
DELAY
47R
ATTN
48R
EQ
12R

Fig. 2

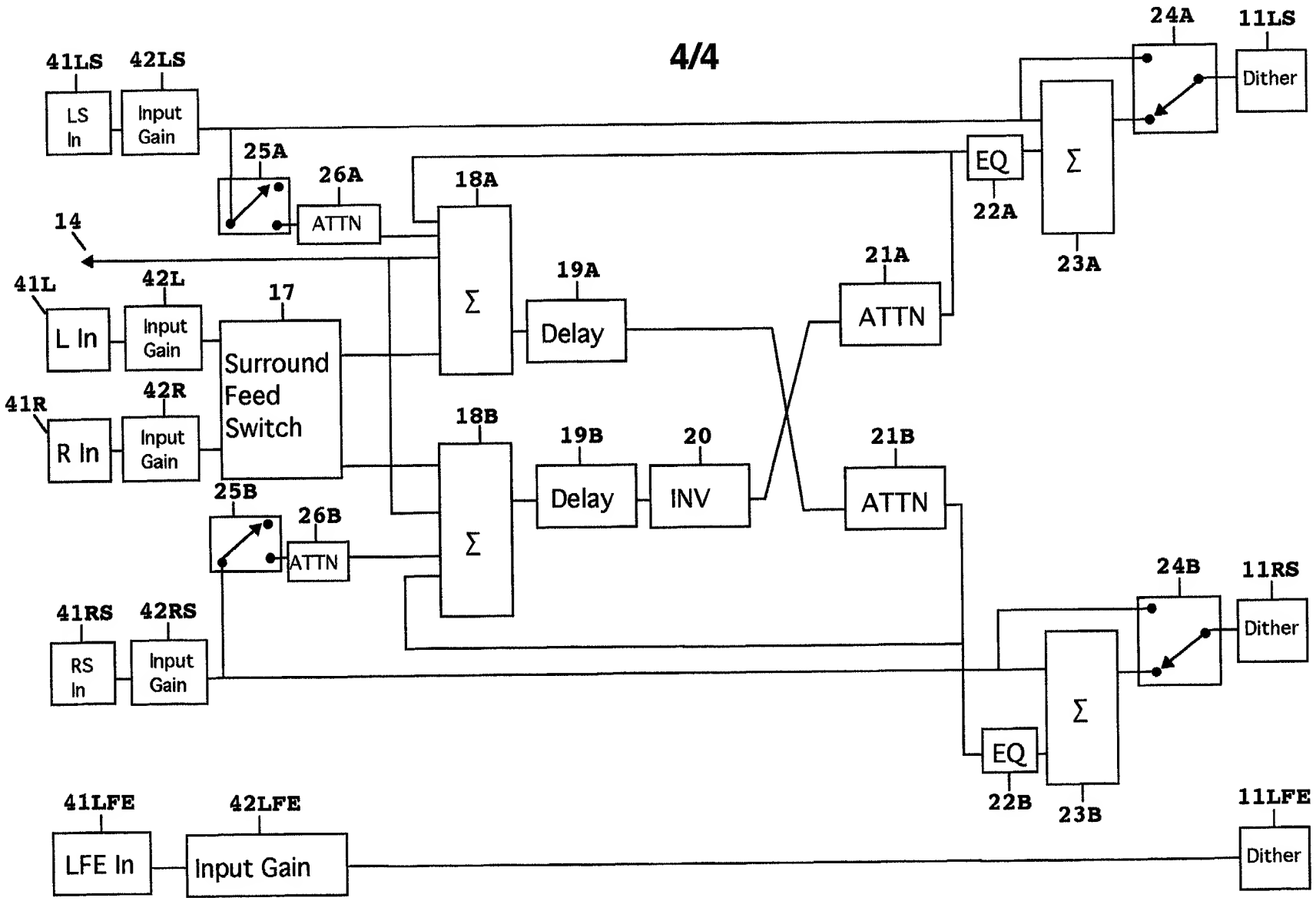
41LS
42LS
LS In
Input Gain
25A
26A
ATTN
18A
24A
11LS
Dither
EQ
22A
Σ
23A
14
41L
42L
L In
Input Gain
17
Surround Feed Switch
19A
Delay
21A
ATTN
41R
42R
R In
Input Gain
18B
19B
Delay
20
INV
21B
ATTN
25B
26B
ATTN
24B
11RS
Dither
41RS
42RS
RS In
Input Gain
EQ
22B
Σ
23B
41LFE
42LFE
LFE In
Input Gain
11LFE
Dither

Fig. 3